

**INSTALLATION DETAILS:**

In retrofit situations, installation of LED modules shall consist of the removal of existing incandescent hardware (sockets, wiring, reflectors, lenses, lamps, gaskets, transformers, etc.) and installing new modules using new or existing fasteners and other hardware pieces as required. Manufacturers of LED modules do not, as a rule, supply mounting hardware with their modules. Observe manufacturers' instructions in regards to proper signal orientation, wiring color codes, use of gasket materials, and any other considerations as directed by the ENGINEER. Removed incandescent hardware shall remain the property of Monroe County Department of Transportation, and is to be returned intact and complete to the Department at the end of the installation process.

In new equipment situations, where permitting, signal sections without lenses or incandescent hardware should be utilized. LED modules can be installed relatively easily at the end of the signal head assembly process. Where possible, re-use existing mounting hardware; however, differences in the depth dimension of the lens or legend necessitate changes in fastener lengths. Follow manufacturers' instructions regarding proper signal orientation, wiring color codes, use of gasket materials, and any other considerations as directed by the ENGINEER.

**METHOD OF MEASUREMENT:**

Installations will be measured for payment as the number installed in accordance with the contract documents or as directed by the ENGINEER.

**BASIS OF PAYMENT:**

The unit price for each module installed shall include all the items specified in the installation details, construction plans, and any other items as required.

Payment will be made under:

<b><u>Item No.</u></b>	<b><u>Item</u></b>	<b><u>Pay Unit</u></b>
686.810308	Install LED Ball / Arrow Traffic Signal Module	Each